HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use INDOMETHACIN SUPPOSITORIES safely and effectively. See full prescribing information for INDOMETHACIN SUPPOSITORIES INDOMETHACIN suppositories, for rectal use

Initial U.S. Approval: 1965

WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS See full prescribing information for complete boxed warning.

- Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use (5.1)
- Indomethacin is contraindicated in the setting of coronary artery bypass graft (CABG) surgery (4, 5.1)
- NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events (5.2)

..... INDICATIONS AND USAGE Indomethacin is a nonsteroidal anti-inflammatory drug indicated for:

- Moderate to severe rheumatoid arthritis including acute flares of chronic disease
- Moderate to severe ankylosing spondylitis Moderate to severe osteoarthritis
- Acute painful shoulder (bursitis and/or tendinitis)
- Acute gouty arthritis (1)

#### DOSAGE AND ADMINISTRATION

- Use the lowest effective dosage for shortest duration consistent with individual patient treatment goals (2.1)
- Indomethacin suppositories 50 mg can be substituted for indomethacin capsules, USP; however, there will be significant differences between the two dosage regimens in indomethacin blood levels (12.3)
- The dosage for moderate to severe rheumatoid arthritis including acute flares of chronic disease; moderate to severe ankylosing spondylitis; and moderate to severe osteoarthritis is indomethacin capsules, USP 25 mg two or three times a day (2.3)
- The dosage for acute painful shoulder (bursitis and/or tendinitis) is indomethacin capsules, USP 75 mg to 150 mg daily in 3 or 4 divided doses (2.4)
- The dosage for acute gouty arthritis is indomethacin capsules, USP 50 mg three times a day (2.5)
- Indomethacin suppositories are not for oral or intravaginal use

Indomethacin suppositories: 50 mg (3) CONTRAINDICATIONS Known hypersensitivity to indomethacin or any components of the drug product (4) • History of asthma, urticaria or other allergic-type reactions after taking aspirin or other NSAIDs (4) • In the setting of CABG surgery (4) In patients with a history of proctitis or recent rectal bleeding (4) WARNINGS AND PRECAUTIONS • Hepatotoxicity: Inform patients of warning signs and symptoms of hepatotoxicity. Discontinue if abnormal liver tests persist or worsen or if clinical signs and symptoms of liver disease develop (5.3) • Hypertension: Patients taking some antihypertensive medications may have impaired response to these therapies when taking NSAIDs. Monitor blood pressure (5.4, 7) Heart Failure and Edema: Avoid use of indomethacin in patients with severe heart failure unless benefits are expected to outweigh risk of worsening heart failure (5.5) Renal Toxicity: Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration, or hypovolemia. Avoid use of indomethacin in patients with advanced renal disease unless benefits are expected to outweigh risk of worsening renal function (5.6) Anaphylactic Reactions: Seek emergency help if an anaphylactic reaction occurs (5.7)

- Exacerbation of Asthma Related to Aspirin Sensitivity: Indomethacin is contraindicated in patients with aspirin-sensitive asthma. Monitor patients with preexisting asthma (without aspirin sensitivity) (5.8)
- Serious Skin Reactions: Discontinue indomethacin at first appearance of skin rash or other signs of hypersensitivity (5.9)
- Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue and evaluate clinically (5.10)
- Fetal Toxicity: Limit use of NSAIDs, including indomethacin, between about 20 weeks to 30 weeks in pregnancy due to the risk of oligohydramnios/fetal renal dysfunction. Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy due to the risks of oligohydramnios/fetal dysfunction and premature closure of the fetal ductus arteriosus (5.11, 8.1)
- Hematologic Toxicity: Monitor hemoglobin or hematocrit in patients with any signs or symptoms of anemia (5.12, 7)

ADVERSE REACTIONS Most common adverse reactions (incidence  $\geq$  3%) are headache, dizziness, dyspepsia and nausea. (6) To report SUSPECTED ADVERSE REACTIONS, contact Zydus Pharmaceuticals (USA) Inc. at 1-877-993-8779 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

DRUG INTERACTIONS • Drugs that Interfere with Hemostasis (e.g., warfarin, aspirin, SSRIs/SNRIs): Monitor patients for bleeding who are concomitantly taking indomethacin with drugs that interfere with hemostasis. Concomitant use of indomethacin and analgesic doses of aspirin is not generally recommended (7)

- ACE Inhibitors, Angiotensin Receptor Blockers (ARB) or Beta-Blockers: Concomitant use with indomethacin may diminish the antihypertensive effect of these drugs. Monitor blood pressure (7)
- ACE Inhibitors and ARBs: Concomitant use with indomethacin in elderly, volume depleted or those with renal impairment may result in deterioration of renal function. In such high risk patients, monitor for signs of worsening renal function (7)
- Diuretics: NSAIDs can reduce natriuretic effect of furosemide and thiazide diuretics. Monitor patients
  to assure diuretic efficacy including antihypertensive effects (7)
- Digoxin: Concomitant use with indomethacin can increase serum concentration and prolong half-life of digoxin. Monitor serum digoxin levels (7)

USE IN SPECIFIC POPULATIONS Infertility: NSAIDs are associated with reversible infertility. Consider withdrawal of indomethacin in women who have difficulties conceiving (8.3) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 4/2024

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#### WARNING: RISK OF SERIOUS CARDIOVASCULAR AND GASTROINTESTINAL EVENTS

**Cardiovascular Thrombotic Events** 

- Nonsteroidal anti-inflammatory drugs (NSAIDs) cause an increased risk of serious cardiovascular thrombotic events, including myocardial infarction and stroke, which can be fatal. This risk may occur early in treatment and may increase with duration of use [see Warnings and Precautions (5.1)].
- Indomethacin is contraindicated in the setting of coronary artery bypass graft (CABG) surgery [see Contraindications (4) and Warnings and Precautions (5.1)].

Gastrointestinal Bleeding, Ulceration and Perforation

• NSAIDs cause an increased risk of serious gastrointestinal (GI) adverse events including bleeding, ulceration and perforation of the stomach or intestines, which can be fatal. These events can occur at any time during use and without warning symptoms. Elderly patients and patients with a prior history of peptic ulcer disease and/or GI bleeding are at greater risk for serious GI events [see Warnings and Precautions (5.2)].

# **1 INDICATIONS AND USAGE**

Indomethacin suppository is indicated for:

- Moderate to severe rheumatoid arthritis including acute flares of chronic disease
- Moderate to severe ankylosing spondylitis
- Moderate to severe osteoarthritis
- Acute painful shoulder (bursitis and/or tendinitis)
- Acute gouty arthritis

#### **2 DOSAGE AND ADMINISTRATION**

# 2.1 General Dosing Instructions

Carefully consider the potential benefits and risks of indomethacin suppositories and other treatment options before deciding to use indomethacin suppositories. Use the lowest effective dosage for the shortest duration consistent with individual patient treatment goals [see Warnings and Precautions (5)].

After observing the response to initial therapy with indomethacin, the dose and frequency should be adjusted to suit an individual patient's needs.

Adverse reactions generally appear to correlate with the dose of indomethacin. Therefore, every effort should be made to determine the lowest effective dosage for the individual patient.

#### SUPPOSITORIES: Indomethacin suppositories are available as 50 mg suppositories for rectal use only. Indomethacin suppositories are not for oral or intravaginal use.

#### 2.2 Suppository Dosing Instructions

# THIS SECTION PREDOMINANTLY MAKES REFERENCE TO INDOMETHACIN CAPSULE, USP ORAL DOSAGE FOR GUIDANCE IN USING SUPPOSITORIES.

Indomethacin suppositories 50 mg can be substituted for indomethacin capsules, USP; however, there will be significant differences between the two dosage regimens in indomethacin blood levels *[see Clinical Pharmacology (12.3)]*.

Oral dosage recommendations for active stages of the following:

# 2.3 Moderate to severe rheumatoid arthritis including acute flares of chronic disease; moderate to severe ankylosing spondylitis; and moderate to severe osteoarthritis

Indomethacin capsules, USP 25 mg twice a day or three times a day. If this is well tolerated, increase the daily dosage by 25 mg or by 50 mg, if required by continuing symptoms, at weekly intervals until a satisfactory response is obtained or until a total daily dose of 150 mg to 200 mg is reached. Doses above this amount generally do not increase the effectiveness of the drug.

In patients who have persistent night pain and/or morning stiffness, the giving of a large portion, up to a maximum of 100 mg, of the total daily dose at bedtime, either orally or by rectal suppositories, may be helpful in affording relief. The total daily dose should not exceed 200 mg. In acute flares of chronic rheumatoid arthritis, it may be necessary to

increase the dosage by 25 mg or, if required, by 50 mg daily.

If minor adverse effects develop as the dosage is increased, reduce the dosage rapidly to a tolerated dose and observe the patient closely.

If severe adverse reactions occur, stop the drug. After the acute phase of the disease is under control, an attempt to reduce the daily dose should be made repeatedly until the patient is receiving the smallest effective dose or the drug is discontinued.

Careful instructions to and observations of, the individual patient are essential to the prevention of serious, irreversible, including fatal, adverse reactions.

As advancing years appear to increase the possibility of adverse reactions, indomethacin should be used with greater care in the elderly. *[see Use in Specific Populations (8.5)]* 

#### 2.4 Acute painful shoulder (bursitis and/or tendinitis)

Indomethacin capsules, USP 75 mg to 150 mg daily in 3 or 4 divided doses.

The drug should be discontinued after the signs and symptoms of inflammation have been controlled for several days. The usual course of therapy is 7 days to 14 days.

#### 2.5 Acute Gouty Arthritis

Indomethacin capsules, USP 50 mg three times a day. Until pain is tolerable. The dose should then be rapidly reduced to complete cessation of the drug. Definite relief of pain has been reported within 2 hours to 4 hours. Tenderness and heat usually subside in 24 hours to 36 hours and swelling gradually disappears in 3 days to 5 days.

#### **3 DOSAGE FORMS AND STRENGTHS**

Indomethacin Suppositories USP, 50 mg are off-white to yellowish white torpedo shaped suppositories.

# **4 CONTRAINDICATIONS**

Indomethacin suppositories are contraindicated in the following patients:

- Known hypersensitivity (e.g., anaphylactic reactions and serious skin reactions) to indomethacin or any components of the drug product [see Warnings and Precautions (5.7, 5.9)]
- History of asthma, urticaria or other allergic-type reactions after taking aspirin or other NSAIDs. Severe, sometimes fatal, anaphylactic reactions to NSAIDs have been reported in such patients [see Warnings and Precautions (5.7, 5.8)]
- In the setting of coronary artery bypass graft (CABG) surgery [see Warnings and Precautions (5.1)]
- In patients with a history of proctitis or recent rectal bleeding

# **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Cardiovascular Thrombotic Events

Clinical trials of several COX-2 selective and nonselective NSAIDs of up to three years duration have shown an increased risk of serious cardiovascular (CV) thrombotic events, including myocardial infarction (MI) and stroke, which can be fatal. Based on available data, it is unclear that the risk for CV thrombotic events is similar for all NSAIDs. The relative increase in serious CV thrombotic events over baseline conferred by NSAID use appears to be similar in those with and without known CV disease or risk factors for CV disease. However, patients with known CV disease or risk factors had a higher absolute incidence of excess serious CV thrombotic events, due to their increased baseline rate. Some observational studies found that this increased risk of serious CV thrombotic events began as early as the first weeks of treatment. The increase in CV thrombotic risk has been observed most consistently at higher doses.

To minimize the potential risk for an adverse CV event in NSAID-treated patients, use the lowest effective dose for the shortest duration possible. Physicians and patients should remain alert for the development of such events, throughout the entire treatment course, even in the absence of previous CV symptoms. Patients should be informed about the symptoms of serious CV events and the steps to take if they occur.

There is no consistent evidence that concurrent use of aspirin mitigates the increased risk of serious CV thrombotic events associated with NSAID use. The concurrent use of aspirin and an NSAID, such as indomethacin, increases the risk of serious gastrointestinal (GI) events [see Warnings and Precautions (5.2)].

# Status Post Coronary Artery Bypass Graft (CABG) Surgery

Two large, controlled clinical trials of a COX-2 selective NSAID for the treatment of pain in

the first 10 days to 14 days following CABG surgery found an increased incidence of myocardial infarction and stroke. NSAIDs are contraindicated in the setting of CABG [see Contraindications (4)].

# Post-MI Patients

Observational studies conducted in the Danish National Registry have demonstrated that patients treated with NSAIDs in the post-MI period were at increased risk of reinfarction, CV-related death and all-cause mortality beginning in the first week of treatment. In this same cohort, the incidence of death in the first year post-MI was 20 per 100 person years in NSAID-treated patients compared to 12 per 100 person years in non-NSAID exposed patients. Although the absolute rate of death declined somewhat after the first year post-MI, the increased relative risk of death in NSAID users persisted over at least the next four years of follow-up.

Avoid the use of indomethacin in patients with a recent MI unless the benefits are expected to outweigh the risk of recurrent CV thrombotic events. If indomethacin is used in patients with a recent MI, monitor patients for signs of cardiac ischemia.

# 5.2 Gastrointestinal Bleeding, Ulceration and Perforation

NSAIDs, including indomethacin, cause serious gastrointestinal (GI) adverse events including inflammation, bleeding, ulceration and perforation of the esophagus, stomach, small intestine or large intestine, which can be fatal. These serious adverse events can occur at any time, with or without warning symptoms, in patients treated with NSAIDs. Only one in five patients who develop a serious upper GI adverse event on NSAID therapy is symptomatic. Upper GI ulcers, gross bleeding or perforation caused by NSAIDs occurred in approximately 1% of patients treated for 3 months to 6 months and in about 2% to 4% of patients treated for one year. However, even short-term NSAID therapy is not without risk.

# Risk Factors for GI Bleeding, Ulceration and Perforation

Patients with a prior history of peptic ulcer disease and/or GI bleeding who used NSAIDs had a greater than 10-fold increased risk for developing a GI bleed compared to patients without these risk factors. Other factors that increase the risk of GI bleeding in patients treated with NSAIDs include longer duration of NSAID therapy; concomitant use of oral corticosteroids, aspirin, anticoagulants or selective serotonin reuptake inhibitors (SSRIs); smoking; use of alcohol; older age; and poor general health status. Most postmarketing reports of fatal GI events occurred in elderly or debilitated patients. Additionally, patients with advanced liver disease and/or coagulopathy are at increased risk for GI bleeding.

#### Strategies to Minimize the GI Risks in NSAID-treated patients:

- Use the lowest effective dosage for the shortest possible duration.
- Avoid administration of more than one NSAID at a time.
- Avoid use in patients at higher risk unless benefits are expected to outweigh the increased risk of bleeding. For such patients, as well as those with active GI bleeding, consider alternate therapies other than NSAIDs.
- Remain alert for signs and symptoms of GI ulceration and bleeding during NSAID therapy.
- If a serious GI adverse event is suspected, promptly initiate evaluation and treatment and discontinue indomethacin until a serious GI adverse event is ruled out.
- In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, monitor patients more closely for evidence of GI bleeding [see Drug Interactions (7)].

# 5.3 Hepatotoxicity

Elevations of ALT or AST (three or more times the upper limit of normal [ULN]) have been reported in approximately 1% of NSAID-treated patients in clinical trials. In addition, rare, sometimes fatal, cases of severe hepatic injury, including fulminant hepatitis, liver necrosis and hepatic failure have been reported.

Elevations of ALT or AST (less than three times ULN) may occur in up to 15% of patients treated with NSAIDs including indomethacin.

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, diarrhea, pruritus, jaundice, right upper quadrant tenderness and "flulike" symptoms). If clinical signs and symptoms consistent with liver disease develop or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), discontinue indomethacin immediately and perform a clinical evaluation of the patient.

# 5.4 Hypertension

NSAIDs, including indomethacin, can lead to new onset of hypertension or worsening of preexisting hypertension, either of which may contribute to the increased incidence of CV events. Patients taking angiotensin converting enzyme (ACE) inhibitors, thiazide diuretics or loop diuretics may have impaired response to these therapies when taking NSAIDs [see Drug Interactions (7)].

Monitor blood pressure (BP) during the initiation of NSAID treatment and throughout the course of therapy.

#### 5.5 Heart Failure and Edema

The Coxib and traditional NSAID Trialists' Collaboration meta-analysis of randomized controlled trials demonstrated an approximately two-fold increase in hospitalizations for heart failure in COX-2 selective-treated patients and nonselective NSAID-treated patients compared to placebo-treated patients. In a Danish National Registry study of patients with heart failure, NSAID use increased the risk of MI, hospitalization for heart failure and death.

Additionally, fluid retention and edema have been observed in some patients treated with NSAIDs. Use of indomethacin may blunt the CV effects of several therapeutic agents used to treat these medical conditions (e.g., diuretics, ACE inhibitors or angiotensin receptor blockers [ARBs]) [see Drug Interactions (7)].

Avoid the use of indomethacin in patients with severe heart failure unless the benefits are expected to outweigh the risk of worsening heart failure. If indomethacin is used in patients with severe heart failure, monitor patients for signs of worsening heart failure.

# 5.6 Renal Toxicity and Hyperkalemia

#### **Renal Toxicity**

Long-term administration of NSAIDs has resulted in renal papillary necrosis and other renal injury.

Renal toxicity has also been seen in patients in whom renal prostaglandins have a compensatory role in the maintenance of renal perfusion. In these patients, administration of an NSAID may cause a dose-dependent reduction in prostaglandin formation and, secondarily, in renal blood flow, which may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, dehydration, hypovolemia, heart failure, liver dysfunction, those taking diuretics and ACE inhibitors or ARBs and the elderly. Discontinuation of NSAID therapy is usually followed by recovery to the pretreatment state.

No information is available from controlled clinical studies regarding the use of indomethacin in patients with advanced renal disease. The renal effects of indomethacin may hasten the progression of renal dysfunction in patients with preexisting renal disease.

Correct volume status in dehydrated or hypovolemic patients prior to initiating indomethacin. Monitor renal function in patients with renal or hepatic impairment, heart failure, dehydration or hypovolemia during use of indomethacin [see Drug Interactions (7)]. Avoid the use of indomethacin in patients with advanced renal disease unless the benefits are expected to outweigh the risk of worsening renal function. If indomethacin is used in patients with advanced renal disease, monitor patients for signs of worsening renal function.

It has been reported that the addition of the potassium-sparing diuretic, triamterene, to a maintenance schedule of indomethacin resulted in reversible acute renal failure in two of four healthy volunteers. Indomethacin and triamterene should not be administered together.

#### Hyperkalemia

Increases in serum potassium concentration, including hyperkalemia, have been reported with use of NSAIDs, even in some patients without renal impairment. In patients with normal renal function, these effects have been attributed to a hyporeninemic-hypoaldosteronism state.

Both indomethacin and potassium-sparing diuretics may be associated with increased serum potassium levels. The potential effects of indomethacin and potassium-sparing diuretics on potassium levels and renal function should be considered when these agents are administered concurrently.

#### 5.7 Anaphylactic Reactions

Indomethacin has been associated with anaphylactic reactions in patients with and without known hypersensitivity to indomethacin and in patients with aspirin-sensitive asthma [see Contraindications (4) and Warnings and Precautions (5.8)].

Seek emergency help if an anaphylactic reaction occurs.

#### 5.8 Exacerbation of Asthma Related to Aspirin Sensitivity

A subpopulation of patients with asthma may have aspirin-sensitive asthma which may include chronic rhinosinusitis complicated by nasal polyps; severe, potentially fatal bronchospasm; and/or intolerance to aspirin and other NSAIDs. Because crossreactivity between aspirin and other NSAIDs has been reported in such aspirin-sensitive patients, indomethacin is contraindicated in patients with this form of aspirin sensitivity [see Contraindications (4)]. When indomethacin is used in patients with preexisting asthma (without known aspirin sensitivity), monitor patients for changes in the signs and symptoms of asthma.

## 5.9 Serious Skin Reactions

NSAIDs, including indomethacin, can cause serious skin adverse reactions such as exfoliative dermatitis, Stevens-Johnson Syndrome (SJS) and toxic epidermal necrolysis (TEN), which can be fatal. These serious events may occur without warning. Inform patients about the signs and symptoms of serious skin reactions and to discontinue the use of indomethacin at the first appearance of skin rash or any other sign of hypersensitivity. Indomethacin is contraindicated in patients with previous serious skin reactions to NSAIDs [see Contraindications (4)].

# 5.10 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) has been reported in patients taking NSAIDs such as indomethacin. Some of these events have been fatal or life-threatening. DRESS typically, although not exclusively, presents with fever, rash, lymphadenopathy and/or facial swelling. Other clinical manifestations may include hepatitis, nephritis, hematological abnormalities, myocarditis or myositis. Sometimes symptoms of DRESS may resemble an acute viral infection. Eosinophilia is often present. Because this disorder is variable in its presentation, other organ systems not noted here may be involved. It is important to note that early manifestations of hypersensitivity, such as fever or lymphadenopathy, may be present even though rash is not evident. If such signs or symptoms are present, discontinue indomethacin and evaluate the patient immediately.

# 5.11 Fetal Toxicity

#### Premature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDS, including indomethacin, in pregnant women at about 30 weeks of gestation and later. NSAIDs, including indomethacin, increase the risk of premature closure of the fetal ductus arteriosus at approximately this gestational age.

#### Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs, including indomethacin, at about 20 weeks gestation or later in pregnancy may cause fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation.

Oligohydramnios is often, but not always, reversible with treatment discontinuation. Complications of prolonged oligohydramnios may, for example, include limb contractures and delayed lung maturation. In some postmarketing cases of impaired neonatal renal function, invasive procedures such as exchange transfusion or dialysis were required.

If NSAID treatment is necessary between about 20 weeks and 30 weeks gestation, limit indomethacin use to the lowest effective dose and shortest duration possible. Consider ultrasound monitoring of amniotic fluid if indomethacin treatment extends beyond 48 hours. Discontinue indomethacin if oligohydramnios occurs and follow up according to clinical practice [see Use in Specific Populations (8.1)].

#### 5.12 Hematologic Toxicity

Anemia has occurred in NSAID-treated patients. This may be due to occult or gross blood loss, fluid retention or an incompletely described effect on erythropoiesis. If a patient treated with indomethacin has any signs or symptoms of anemia, monitor hemoglobin or hematocrit.

NSAIDs, including indomethacin, may increase the risk of bleeding events. Co-morbid conditions, such as coagulation disorders or concomitant use of warfarin, other anticoagulants, antiplatelet agents (e.g., aspirin), serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) may increase this risk. Monitor these patients for signs of bleeding [see Drug Interactions (7)].

# 5.13 Masking of Inflammation and Fever

The pharmacological activity of indomethacin in reducing inflammation and possibly fever, may diminish the utility of diagnostic signs in detecting infections.

#### 5.14 Laboratory Monitoring

Because serious GI bleeding, hepatotoxicity and renal injury can occur without warning symptoms or signs, consider monitoring patients on long-term NSAID treatment with a

CBC and a chemistry profile periodically [see Warnings and Precautions (5.2, 5.3, 5.6)].

#### 5.15 Central Nervous System Effects

Indomethacin may aggravate depression or other psychiatric disturbances, epilepsy and parkinsonism and should be used with considerable caution in patients with these conditions. Discontinue indomethacin if severe CNS adverse reactions develop.

Indomethacin may cause drowsiness; therefore, caution patients about engaging in activities requiring mental alertness and motor coordination, such as driving a car. Indomethacin may also cause headache. Headache which persists despite dosage reduction requires cessation of therapy with indomethacin.

#### 5.16 Ocular Effects

Corneal deposits and retinal disturbances, including those of the macula, have been observed in some patients who had received prolonged therapy with indomethacin. Be alert to the possible association between the changes noted and indomethacin. It is advisable to discontinue therapy if such changes are observed. Blurred vision may be a significant symptom and warrants a thorough ophthalmological examination. Since these changes may be asymptomatic, ophthalmologic examination at periodic intervals is desirable in patients receiving prolonged therapy. Indomethacin is not indicated for longterm treatment.

# 6 ADVERSE REACTIONS

The following adverse reactions are discussed in greater detail in other sections of the labeling:

- Cardiovascular Thrombotic Events [see Warnings and Precautions (5.1)]
- GI Bleeding, Ulceration and Perforation [see Warnings and Precautions (5.2)]
- Hepatotoxicity [see Warnings and Precautions (5.3)]
- Hypertension [see Warnings and Precautions (5.4)]
- Heart Failure and Edema [see Warnings and Precautions (5.5)]
- Renal Toxicity and Hyperkalemia [see Warnings and Precautions (5.6)]
- Anaphylactic Reactions [see Warnings and Precautions (5.7)]
- Serious Skin Reactions [see Warnings and Precautions (5.9)]
- Hematologic Toxicity [see Warnings and Precautions (5.11)]

#### 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

In a gastroscopic study in 45 healthy subjects, the number of gastric mucosal abnormalities was significantly higher in the group receiving Indomethacin Capsules than in the group taking Indomethacin Suppositories or placebo.

In a double-blind comparative clinical study involving 175 patients with rheumatoid arthritis, however, the incidence of upper gastrointestinal adverse effects with Indomethacin Suppositories or Capsules was comparable. The incidence of lower gastrointestinal adverse effects was greater in the suppository group.

The adverse reactions for Indomethacin Capsules listed in the following table have been arranged into two groups: (1) incidence greater than 1%; and (2) incidence less than 1%. The incidence for group (1) was obtained from 33 double-blind controlled clinical trials reported in the literature (1,092 patients). The incidence for group (2) was based on reports in clinical trials, in the literature and on voluntary reports since marketing. The probability of a causal relationship exists between indomethacin and these adverse reactions, some of which have been reported only rarely.

The adverse reactions reported with Indomethacin Capsules may occur with use of the suppositories. In addition, rectal irritation and tenesmus have been reported in patients who have received the suppositories.

#### Table 1 Summary of Adverse Reactions for Indomethacin Capsules

<i>Incidence greater than</i> 1%	Incidence less than 1	%
GASTROINTESTINAL		
Incidence greater than 1%	Incidence less than 1	%
nausea * with or without vomiting dyspepsia* (including indigestion, heartburn and	anorexia bloating (includes distension) Iflatulence	gastrointestinal bleeding without obvious ulcer formation and perforation of preexisting sigmoid

epigastric pain)	peptic ulcer	lesions (diverticulum,		
diarrhea	gastroenteritis	carcinoma, etc.)		
abdominal distress or pair	rectal bleeding	development of ulcerative		
constipation	proctitis	colitis and regional ileitis		
	single or multiple	ulcerative stomatitis		
	ulcerations, including	toxic hepatitis and		
	perforation and	jaundice (some fatal cases		
	hemorrhage of the	have been reported)		
	esophagus, stomach,	intestinal strictures		
	duodenum or small and large intestines	(diaphragms) pancreatitis		
	intestinal ulceration	paricieacits		
	associated with stenosis			
	and obstruction			
CENTRAL NERVOUS SYST				
headache (11.7%)	anxiety (includes	light-headedness		
dizziness*	nervousness)	syncope		
vertigo	muscle weakness	paresthesia		
somnolence	involuntary muscle	aggravation of epilepsy		
	movements	and parkinsonism		
depression and fatigue	insomnia	depersonalization		
(including malaise and	muzziness	coma peripheral		
listlessness)	psychic disturbances	neuropathy		
	including psychotic	convulsion		
	episodes	dysarthria		
	mental confusion drowsiness			
SPECIAL SENSES	ui UWSIIIESS			
tinnitus	ocular — corneal deposits	blurrod vicion		
unnicus	and retinal disturbances,	diplopia		
	including those of the	hearing disturbances,		
	macula, have been	nearing distantibulices,		
	reported in some patients	deafness		
	on prolonged therapy			
	with indomethacin			
CARDIOVASCULAR		1		
None	hypertension	congestive heart failure		
	hypotension	arrhythmia; palpitations		
	tachycardia			
	chest pain			
METABOLIC				
None	edema	hyperglycemia		
	weight gain	glycosuria		
	fluid retention	hyperkalemia		
	flushing or sweating			
	naonnig or orreating			
INTEGUMENTARY				
INTEGUMENTARY none	pruritus	exfoliative dermatitis		
	pruritus rash; urticaria	erythema nodosum		
	pruritus	erythema nodosum loss of hair		
	pruritus rash; urticaria	erythema nodosum loss of hair Stevens-Johnson		
	pruritus rash; urticaria	erythema nodosum loss of hair Stevens-Johnson syndrome		
	pruritus rash; urticaria	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme		
none	pruritus rash; urticaria	erythema nodosum loss of hair Stevens-Johnson syndrome		
none HEMATOLOGIC	pruritus rash; urticaria petechiae or ecchymosis	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme		
none HEMATOLOGIC Incidence greater than	pruritus rash; urticaria	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme		
none HEMATOLOGIC	pruritus rash; urticaria petechiae or ecchymosis Incidence less than 1%	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis Incidence less than 1%	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia hemolytic anemia		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia hemolytic anemia agranulocytosis		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura disseminated		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura		
none HEMATOLOGIC Incidence greater than 1%	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia hemolytic anemia agranulocytosis thrombocytopenic purpura disseminated		
none HEMATOLOGIC Incidence greater than 1% None	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation		
none HEMATOLOGIC Incidence greater than 1% None HYPERSENSITIVITY	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis acute respiratory distress	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation dyspnea asthma		
none HEMATOLOGIC Incidence greater than 1% None HYPERSENSITIVITY	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis acute respiratory distress rapid fall in blood	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation dyspnea asthma purpura		
none HEMATOLOGIC Incidence greater than 1% None HYPERSENSITIVITY	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis acute respiratory distress rapid fall in blood pressure resembling a	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation dyspnea asthma purpura angiitis		
none HEMATOLOGIC Incidence greater than 1% None HYPERSENSITIVITY	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis acute respiratory distress rapid fall in blood pressure resembling a shock-like state	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation dyspnea asthma purpura angiitis pulmonary edema		
none HEMATOLOGIC Incidence greater than 1% None HYPERSENSITIVITY	pruritus rash; urticaria petechiae or ecchymosis <i>Incidence less than 1%</i> leukopenia bone marrow depression anemia secondary to obvious or occult gastrointestinal bleeding acute anaphylaxis acute respiratory distress rapid fall in blood pressure resembling a	erythema nodosum loss of hair Stevens-Johnson syndrome erythema multiforme toxic epidermal necrolysis aplastic anemia agranulocytosis thrombocytopenic purpura disseminated intravascular coagulation dyspnea asthma purpura angiitis		

	vaginal bleeding proteinuria nephrotic syndrome interstitial nephritis	renal insufficiency, including renal failure
MISCELLANEOUS		
None	epistaxis breast changes, including enlargement and tenderness or gynecomastia	
	ng in 3% to 9% of patients treated ccurring in less than 3% of the pai	

**Causal relationship unknown:** Other reactions have been reported but occurred under circumstances where a causal relationship could not be established. However, in these rarely reported events, the possibility cannot be excluded. Therefore, these observations are being listed to serve as alerting information to physicians:

Cardiovascular: Thrombophlebitis

*Hematologic*: Although there have been several reports of leukemia, the supporting information is weak

Genitourinary: Urinary frequency

A rare occurrence of fulminant necrotizing fasciitis, particularly in association with Group  $A\beta$  hemolytic streptococcus, has been described in persons treated with nonsteroidal anti-inflammatory agents, including indomethacin, sometimes with fatal outcome

# **7 DRUG INTERACTIONS**

See Table 2 for clinically significant drug interactions with indomethacin.

#### Table 2 Clinically Significant Drug Interactions with Indomethacin

Clinical Impact:	
Ciincai mpact.	<ul> <li>Indefine that and anticoagulants such as warfarin have a synergistic effect on bleeding. The concomitant use of indomethacin and anticoagulants have an increased risk of serious bleeding compared to the use of either drug alone.</li> </ul>
	<ul> <li>Serotonin release by platelets plays an important role in hemostasis. Case-control and cohort epidemiological studies showed that concomitant use of drugs that interfere with serotonin reuptake and an NSAID may potentiate the risk of bleeding more than an NSAID alone.</li> </ul>
Intervention:	Monitor patients with concomitant use of indomethacin with anticoagulants (e.g., warfarin), antiplatelet agents (e.g., aspirin), selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs) for signs of bleeding [see Warnings and Precautions (5.11)].
Aspirin	
Clinical Impact:	Controlled clinical studies showed that the concomitant use of NSAIDs and analgesic doses of aspirin does not produce any greater therapeutic effect than the use of NSAIDs alone. In a clinical study, the concomitant use of an NSAID and aspirin was associated with a significantly increased incidence of GI adverse reactions as compared to use of the NSAID alone [see Warnings and Precautions (5.2)].
Intervention:	Concomitant use of indomethacin and analgesic doses of aspirin is not generally recommended because of the increased risk of bleeding [see Warnings and Precautions (5.11)]. Indomethacin is not a substitute for low dose aspirin for cardiovascular protection.
	giotensin Receptor Blockers and Beta-Blockers
Clinical Impact:	NSAIDs may diminish the antihypertensive effect of angiotensin converting enzyme (ACE)

	1
	<ul> <li>inhibitors, angiotensin receptor blockers (ARBs) or beta-blockers (including propranolol).</li> <li>In patients who are elderly, volume-depleted (including those on diuretic therapy) or have rena impairment, co-administration of an NSAID with ACE inhibitors or ARBs may result in deterioration of renal function, including possible acute renal failure. These effects are usually reversible.</li> </ul>
Intervention:	<ul> <li>During concomitant use of indomethacin and ACE-inhibitors, ARBs or beta-blockers, monitor blood pressure to ensure that the desired blood pressure is obtained.</li> <li>During concomitant use of indomethacin and ACE-inhibitors or ARBs in patients who are elderly, volume-depleted or have impaired renal function, monitor for signs of worsening renal function [see Warnings and Precautions (5.6)].</li> <li>When these drugs are administered concomitantly, patients should be adequately hydrated. Assess renal function at the beginning of the concomitant treatment and periodically thereafter.</li> </ul>
Diuretics	
Clinical Impact:	Clinical studies, as well as post-marketing observations, showed that NSAIDs reduced the natriuretic effect of loop diuretics (e.g., furosemide) and thiazide diuretics in some patients. This effect has been attributed to the NSAID inhibition of renal prostaglandin synthesis. It has been reported that the addition of triamterene
	to a maintenance schedule of indomethacin resulted in reversible acute renal failure in two of four healthy volunteers. Indomethacin and triamterene should not be administered together. Both indomethacin and potassium-sparing diuretics may be associated with increased serum potassium levels. The potential effects of indomethacin and potassium-sparing diuretics on potassium levels and renal function should be considered when these agents are administered concurrently.
Intervention:	Indomethacin and triamterene should not be administered together. During concomitant use of indomethacin with diuretics, observe patients for signs of worsening renal function, in addition to assuring diuretic efficacy including antihypertensive effects. Be aware that indomethacin and potassium-sparing diuretics may both be associated with increased serum potassium levels [see Warnings and
Digoxin	Precautions (5.6)].
Clinical Impact:	The concomitant use of indomethacin with digoxin has been reported to increase the serum concentration and prolong the half-life of digoxin.
Intervention:	During concomitant use of indomethacin and
Lithium	digoxin, monitor serum digoxin levels.
Clinical Impact:	NSAIDs have produced elevations in plasma lithium levels and reductions in renal lithium clearance. The mean minimum lithium concentration increased 15% and the renal clearance decreased by approximately 20%. This effect has been attributed to NSAID inhibition of renal prostaglandin synthesis.
Intervention:	During concomitant use of indomethacin and lithium,
Mathetariata	monitor patients for signs of lithium toxicity.
Methotrexate	Concomitant use of NSAIDs and methotrexate may
Clinical Impact:	increase the risk for methotrexate toxicity (e.g., neutropenia, thrombocytopenia, renal dysfunction).

	methotrexate, monitor patients for methotrexate toxicity.		
Cyclosporine	· _ ·		
Clinical Impact:	Concomitant use of indomethacin and cyclosporine may increase cyclosporine's nephrotoxicity.		
Intervention:	During concomitant use of indomethacin and cyclosporine, monitor patients for signs of worsening renal function.		
NSAIDs and Salicy	lates		
Clinical Impact:	Concomitant use of indomethacin with other NSAIDs or salicylates (e.g., diflunisal, salsalate) increases the risk of GI toxicity, with little or no increase in efficacy [see Warnings and Precautions (5.2)]. Combined use with diflunisal may be particularly hazardous because diflunisal causes significantly higher plasma levels of indomethacin [see Clinical Pharmacology (12.3)]. In some patients, combined use of indomethacin and diflunisal has been associated with fatal gastrointestinal hemorrhage.		
Intervention:	The concomitant use of indomethacin with other NSAIDs or salicylates, especially diflunisal, is not recommended.		
Pemetrexed			
Clinical Impact:	Concomitant use of indomethacin and pemetrexed may increase the risk of pemetrexed-associated myelosuppression, renal and GI toxicity (see the pemetrexed prescribing information).		
Intervention:	During concomitant use of indomethacin and pemetrexed, in patients with renal impairment whose creatinine clearance ranges from 45 mL/min to 79 mL/min, monitor for myelosuppression, renal and GI toxicity. NSAIDs with short elimination half-lives (e.g., diclofenac, indomethacin) should be avoided for a period of two days before, the day of and two days following administration of pemetrexed. In the absence of data regarding potential interaction between pemetrexed and NSAIDs with longer half-lives (e.g., meloxicam, nabumetone), patients taking these NSAIDs should interrupt dosing for at least five days before, the day of and two days following pemetrexed administration.		
Probenecid			
Clinical Impact:	When indomethacin is given to patients receiving probenecid, the plasma levels of indomethacin are likely to be increased.		
Intervention:	During the concomitant use of indomethacin and probenecid, a lower total daily dosage of indomethacin may produce a satisfactory therapeutic effect. When increases in the dose of indomethacin are made, they should be made carefully and in small increments.		

#### Effects on Laboratory Tests

Indomethacin reduces basal plasma renin activity (PRA), as well as those elevations of PRA induced by furosemide administration or salt or volume depletion. These facts should be considered when evaluating plasma renin activity in hypertensive patients.

False-negative results in the dexamethasone suppression test (DST) in patients being treated with indomethacin have been reported. Thus, results of the DST should be interpreted with caution in these patients.

#### **8 USE IN SPECIFIC POPULATIONS**

# 8.1 Pregnancy

#### **Risk Summary**

Use of NSAIDs, including indomethacin, can cause premature closure of the fetal ductus arteriosus and fetal renal dysfunction leading to oligohydramnios and, in some cases, neonatal renal impairment. Because of these risks, limit dose and duration of indomethacin use between about 20 weeks and 30 weeks of gestation and avoid

indomethacin use at about 30 weeks of gestation and later in pregnancy (see Clinical Considerations, Data).

#### Premature Closure of Fetal Ductus Arteriosus

Use of NSAIDS, including indomethacin, at about 30 weeks gestation or later in pregnancy increases the risk of premature closure of the fetal ductus arteriosus.

#### Oligohydramnios/Neonatal Renal Impairment

Use of NSAIDs at about 20 weeks gestation or later in pregnancy has been associated with cases of fetal renal dysfunction leading to oligohydramnios and in some cases, neonatal renal impairment.

Data from observational studies regarding other potential embryofetal risks of NSAID use in women in the first or second trimesters of pregnancy are inconclusive. In animal reproduction studies retarded fetal ossification was observed with administration of indomethacin to mice and rats during organogenesis at doses 0.1 times and 0.2 times, respectively, the maximum recommended human dose (MRHD, 200 mg). In published studies in pregnant mice, indomethacin produced maternal toxicity and death, increased fetal resorptions and fetal malformations at 0.1 times the MRHD. When rat and mice dams were dosed during the last three days of gestation, indomethacin produced neuronal necrosis in the offspring at 0.1 times and 0.05 times the MRHD, respectively [see Data]. Based on animal data, prostaglandins have been shown to have an important role in endometrial vascular permeability, blastocyst implantation and decidualization. In animal studies, administration of prostaglandin synthesis inhibitors such as indomethacin, resulted in increased pre- and post-implantation loss. Prostaglandins also have been shown to have an important role in fetal kidney development. In published animal studies, prostaglandin synthesis inhibitors have been reported to impair kidney development when administered at clinically relevant doses.

The estimated background risk of major birth defects and miscarriage for the indicated population(s) is unknown. All pregnancies have a background risk of birth defect, loss or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

#### **Clinical Considerations**

#### Fetal/Neonatal Adverse Reactions

#### Premature Closure of Fetal Ductus Arteriosus

Avoid use of NSAIDs in women at about 30 weeks gestation and later in pregnancy, because NSAIDs, including indomethacin, can cause premature closure of the fetal ductus arteriosus (see Data).

#### Oligohydramnios/Neonatal Renal Impairment

If an NSAID is necessary at about 20 weeks gestation or later in pregnancy, limit the use to the lowest effective dose and shortest duration possible. If indomethacin treatment extends beyond 48 hours, consider monitoring with ultrasound for oligohydramnios. If oligohydramnios occurs, discontinue indomethacin and follow up according to clinical practice (*see Data*).

#### Data

Human Data

#### Premature Closure of Fetal Ductus Arteriosus

Published literature reports that the use of NSAIDs at about 30 weeks of gestation and later in pregnancy may cause premature closure of the fetal ductus arteriosus.

#### Oligohydramnios/Neonatal Renal Impairment

Published studies and postmarketing reports describe maternal NSAID use at about 20 weeks gestation or later in pregnancy associated with fetal renal dysfunction leading to oligohydramnios and in some cases, neonatal renal impairment. These adverse outcomes are seen, on average, after days to weeks of treatment, although oligohydramnios has been infrequently reported as soon as 48 hours after NSAID initiation. In many cases, but not all, the decrease in amniotic fluid was transient and reversible with cessation of the drug. There have been a limited number of case reports of maternal NSAID use and neonatal renal dysfunction without oligohydramnios, some of which were irreversible. Some cases of neonatal renal dysfunction required treatment with invasive procedures, such as exchange transfusion or dialysis.

Methodological limitations of these postmarketing studies and reports include lack of a control group; limited information regarding dose, duration and timing of drug exposure; and concomitant use of other medications. These limitations preclude establishing a reliable estimate of the risk of adverse fetal and neonatal outcomes with maternal NSAID use. Because the published safety data on neonatal outcomes involved mostly preterm infants, the generalizability of certain reported risks to the full-term infant exposed to

#### NSAIDs through maternal use is uncertain.

#### Animal data

Reproductive studies were conducted in mice and rats at dosages of 0.5 mg/kg/day, 1 mg/kg/day, 2 mg/kg/day and 4 mg/kg/day. Except for retarded fetal ossification at 4 mg/kg/day (0.1 times [mice] and 0.2 times [rats] the MRHD on a mg/m<sup>2</sup> basis, respectively) considered secondary to the decreased average fetal weights, no increase in fetal malformations was observed as compared with control groups. Other studies in mice reported in the literature using higher doses (5 mg/kg/day to 15 mg/kg/day, 0.1 times to 0.4 times MRHD on a mg/m<sup>2</sup> basis) have described maternal toxicity and death, increased fetal resorptions and fetal malformations. Comparable studies in rodents using high doses of aspirin have shown similar maternal and fetal effects.

In rats and mice, maternal indomethacin administration of 4 mg/kg/day (0.2 times and 0.1 times the MRHD on a mg/m<sup>2</sup> basis) during the last 3 days of gestation was associated with an increased incidence of neuronal necrosis in the diencephalon in the live-born fetuses however no increase in neuronal necrosis was observed at 2 mg/kg/day as compared to the control groups (0.1 times and 0.05 times the MRHD on a mg/m<sup>2</sup> basis). Administration of 0.5 mg/kg/day or 4 mg/kg/day to offspring during the first 3 days of life did not cause an increase in neuronal necrosis at either dose level.

# 8.2 Lactation

#### **Risk Summary**

Based on available published clinical data, indomethacin may be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for indomethacin and any potential adverse effects on the breastfed infant from the indomethacin or from the underlying maternal condition.

# Data

In one study, levels of indomethacin in breast milk were below the sensitivity of the assay (< 20 mcg/L) in 11 of 15 women using doses ranging from 75 mg orally to 300 mg rectally daily (0.94 mg/kg to 4.29 mg/kg daily) in the postpartum period. Based on these levels, the average concentration present in breast milk was estimated to be 0.27% of the maternal weight-adjusted dose. In another study indomethacin levels were measured in breast milk of eight postpartum women using doses of 75 mg daily and the results were used to calculate an estimated infant daily dose. The estimated infant dose of indomethacin from breast milk was less than 30 mcg/day or 4.5 mcg/kg/day assuming breast milk intake of 150 mL/kg/day. This is 0.5% of the maternal weight-adjusted dosage or about 3% of the neonatal dose for treatment of patent ductus arteriosus.

#### 8.3 Females and Males of Reproductive Potential

#### Infertility

#### Females

Based on the mechanism of action, the use of prostaglandin-mediated NSAIDs, including indomethacin, may delay or prevent rupture of ovarian follicles, which has been associated with reversible infertility in some women. Published animal studies have shown that administration of prostaglandin synthesis inhibitors has the potential to disrupt prostaglandin-mediated follicular rupture required for ovulation. Small studies in women treated with NSAIDs have also shown a reversible delay in ovulation. Consider withdrawal of NSAIDs, including indomethacin, in women who have difficulties conceiving or who are undergoing investigation of infertility.

#### 8.4 Pediatric Use

Safety and effectiveness in pediatric patients 14 years of age and younger has not been established.

Indomethacin should not be prescribed for pediatric patients 14 years of age and younger unless toxicity or lack of efficacy associated with other drugs warrants the risk.

In experience with more than 900 pediatric patients reported in the literature or to the manufacturer who were treated with Indomethacin Capsules, side effects in pediatric patients were comparable to those reported in adults. Experience in pediatric patients has been confined to the use of Indomethacin Capsules.

If a decision is made to use indomethacin for pediatric patients two years of age or older, such patients should be monitored closely and periodic assessment of liver function is recommended. There have been cases of hepatotoxicity reported in pediatric patients with juvenile rheumatoid arthritis, including fatalities. If indomethacin treatment is instituted, a suggested starting dose is 1 mg/kg/day to 2 mg/kg/day given in divided doses. Maximum daily dosage should not exceed 3 mg/kg/day or 150 mg/day to 200 mg/day, whichever is less. Limited data are available to support the use of a maximum daily dosage of 4 mg/kg/day or 150 mg/day to 200 mg/day, whichever is less. As symptoms subside, the total daily dosage should be reduced to the lowest level required to control symptoms or the drug should be discontinued.

#### 8.5 Geriatric Use

Elderly patients, compared to younger patients, are at greater risk for NSAID-associated serious cardiovascular, gastrointestinal and/or renal adverse reactions. If the anticipated benefit for the elderly patient outweighs these potential risks, start dosing at the low end of the dosing range and monitor patients for adverse effects [see Warnings and Precautions (5.1, 5.2, 5.3, 5.6, 5.13)].

Indomethacin may cause confusion or rarely, psychosis [see Adverse Reactions (6.1)]; physicians should remain alert to the possibility of such adverse effects in the elderly.

Indomethacin and its metabolites are known to be substantially excreted by the kidneys and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, use caution in this patient population and it may be useful to monitor renal function [see *Clinical Pharmacology (12.3)*].

#### **10 OVERDOSAGE**

Symptoms following acute NSAID overdosages have been typically limited to lethargy, drowsiness, nausea, vomiting and epigastric pain, which have been generally reversible with supportive care. Gastrointestinal bleeding has occurred. Hypertension, acute renal failure, respiratory depression and coma have occurred, but were rare [see Warnings and Precautions (5.1, 5.2, 5.4, 5.6)].

Manage patients with symptomatic and supportive care following an NSAID overdosage. There are no specific antidotes. Consider emesis and/or activated charcoal (60 grams to 100 grams in adults, 1 gram per kg to 2 gram per kg of body weight in pediatric patients) and/or osmotic cathartic in symptomatic patients seen within four hours of ingestion or in patients with a large overdosage (5 times to 10 times the recommended dosage). Forced diuresis, alkalinization of urine, hemodialysis or hemoperfusion may not be useful due to high protein binding.

For additional information about overdosage treatment contact a poison control center (1-800-222-1222).

#### **11 DESCRIPTION**

Indomethacin Suppositories, USP are a nonsteroidal anti-inflammatory drug, available as a suppository containing 50 mg of indomethacin, USP administered for rectal use. The chemical name is 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1*H*-indole-3-acetic acid. The molecular weight is 357.79. Its molecular formula is  $C_{19}H_{16}CINO_4$  and it has the following chemical structure.

Indomethacin, USP is a white to yellow crystalline powder. It is practically insoluble in water and sparingly soluble in alcohol, in chloroform, and in ether. It has a pKa of 4.27 and is stable in neutral or slightly acidic media and decomposes in strong alkali.

Each indomethacin suppository contains hard fat as an inactive ingredient. Indomethacin suppositories, USP, 50 mg each, are off-white to yellowish white, torpedo shaped, rectal suppositories.

FDA approved dissolution test specifications differ from USP.

#### **12 CLINICAL PHARMACOLOGY**

#### 12.1 Mechanism of Action

Indomethacin has analgesic, anti-inflammatory and antipyretic properties.

The mechanism of action of indomethacin, like that of other NSAIDs, is not completely understood but involves inhibition of cyclooxygenase (COX-1 and COX-2).

Indomethacin is a potent inhibitor of prostaglandin synthesis *in vitro*. Indomethacin concentrations reached during therapy have produced *in vivo* effects. Prostaglandins sensitize afferent nerves and potentiate the action of bradykinin in inducing pain in animal models. Prostaglandins are mediators of inflammation. Because indomethacin is an inhibitor of prostaglandin synthesis, its mode of action may be due to a decrease of prostaglandins in peripheral tissues.

#### 12.3 Pharmacokinetics

## Absorption

Following single oral doses of Indomethacin Capsules 25 mg or 50 mg, indomethacin is readily absorbed, attaining peak plasma concentrations of about 1 mcg/mL and 2 mcg/mL, respectively, at about 2 hours. Orally administered Indomethacin Capsules are virtually 100% bioavailable, with 90% of the dose absorbed within 4 hours. With a typical therapeutic regimen of 25 mg or 50 mg three times a day, the steady-state plasma concentrations of indomethacin are an average 1.4 times those following the first dose.

The rate of absorption is more rapid from the rectal suppository than from Indomethacin Capsules. Ordinarily, therefore, the total amount absorbed from the suppository would be expected to be at least equivalent to the capsule. In controlled clinical trials, however, the amount of indomethacin absorbed was found to be somewhat less (80% to 90%) than that absorbed from Indomethacin Capsules. This is probably because some subjects did not retain the material from the suppository for the one hour necessary to assure complete absorption. Since the suppository dissolves rather quickly rather than melting slowly, it is seldom recovered in recognizable form if the patient retains the suppository for more than a few minutes.

# Distribution

Indomethacin is highly bound to protein in plasma (about 99%) over the expected range of therapeutic plasma concentrations. Indomethacin has been found to cross the bloodbrain barrier and the placenta and appears in breast milk.

# Elimination

# Metabolism

Indomethacin exists in the plasma as the parent drug and its desmethyl, desbenzoyl and desmethyldesbenzoyl metabolites, all in the unconjugated form. Appreciable formation of glucuronide conjugates of each metabolite and of indomethacin are formed.

#### Excretion

Indomethacin is eliminated via renal excretion, metabolism and biliary excretion. Indomethacin undergoes appreciable enterohepatic circulation. About 60% of an oral dose is recovered in urine as drug and metabolites (26% as indomethacin and its glucuronide) and 33% is recovered in feces (1.5% as indomethacin). The mean half-life of indomethacin is estimated to be about 4.5 hours.

# Specific Populations

Pediatric

The pharmacokinetics of indomethacin has not been investigated in pediatric patients.

#### Race

Pharmacokinetic differences due to race have not been identified.

#### Hepatic Impairment

The pharmacokinetics of indomethacin has not been investigated in patients with hepatic impairment.

#### Renal Impairment

The pharmacokinetics of indomethacin has not been investigated in patients with renal impairment [see Warnings and Precautions (5.6)].

# Drug Interaction Studies

Aspirin:

In a study in normal volunteers, it was found that chronic concurrent administration of 3.6 g of aspirin per day decreases indomethacin blood levels approximately 20% [see Drug Interactions (7)].

When NSAIDs were administered with aspirin, the protein binding of NSAIDs were reduced, although the clearance of free NSAID was not altered. The clinical significance of this interaction is not known. See Table 2 for clinically significant drug interactions of NSAIDs with aspirin [see Drug Interactions (7)].

Diflunisal:

In normal volunteers receiving indomethacin, the administration of diflunisal decreased the renal clearance and significantly increased the plasma levels of indomethacin *[see Drug Interactions (7)].* 

# **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### Carcinogenesis

In an 81 week chronic oral toxicity study in the rat at doses up to 1 mg/kg/day (0.05 times the MRHD on a mg/m<sup>2</sup> basis), indomethacin had no tumorigenic effect. Indomethacin produced no neoplastic or hyperplastic changes related to treatment in carcinogenic studies in the rat (dosing period 73 weeks to 110 weeks) and the mouse (dosing period 62 weeks to 88 weeks) at doses up to 1.5 mg/kg/day (0.04 times [mice] and 0.07 times [rats] the MRHD on a mg/m<sup>2</sup> basis, respectively).

# Mutagenesis

Indomethacin did not have any mutagenic effect in *in vitro* bacterial tests and a series of *in vivo* tests including the host-mediated assay, sex-linked recessive lethals in Drosophila and the micronucleus test in mice.

# Impairment of Fertility

Indomethacin at dosage levels up to 0.5 mg/kg/day had no effect on fertility in mice in a two generation reproduction study (0.01 times the MRHD on a mg/m<sup>2</sup> basis) or a two litter reproduction study in rats (0.02 times the MRHD on a mg/m<sup>2</sup> basis).

# **14 CLINICAL STUDIES**

Indomethacin has been shown to be an effective anti-inflammatory agent, appropriate for long-term use in rheumatoid arthritis, ankylosing spondylitis and osteoarthritis.

Indomethacin affords relief of symptoms; it does not alter the progressive course of the underlying disease.

Indomethacin suppresses inflammation in rheumatoid arthritis as demonstrated by relief of pain and reduction of fever, swelling and tenderness. Improvement in patients treated with indomethacin for rheumatoid arthritis has been demonstrated by a reduction in joint swelling, average number of joints involved and morning stiffness; by increased mobility as demonstrated by a decrease in walking time; and by improved functional capability as demonstrated by an increase in grip strength. Indomethacin may enable the reduction of steroid dosage in patients receiving steroids for the more severe forms of rheumatoid arthritis. In such instances the steroid dosage should be reduced slowly and the patients followed very closely for any possible adverse effects.

# **16 HOW SUPPLIED/STORAGE AND HANDLING**

Indomethacin Suppositories USP, 50 mg are off-white to yellowish white torpedo shaped suppositories and are supplied as follows:

NDC 70710-1958-7 in cartons containing 30 (5 x 6's) rectal suppositories

# Storage

Store refrigerated between 2°C to 8°C (36°F to 46°F).

# **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Medication Guide) that accompanies each prescription dispensed. Inform patients, families or their caregivers of the following information before initiating therapy with indomethacin and periodically during the course of ongoing therapy. Indomethacin Suppositories are for rectal use only. Advise patients not to use indomethacin suppositories orally or intra-vaginally.

#### Cardiovascular Thrombotic Events

Advise patients to be alert for the symptoms of cardiovascular thrombotic events, including chest pain, shortness of breath, weakness or slurring of speech and to report any of these symptoms to their healthcare provider immediately [see Warnings and *Precautions (5.1)*].

# Gastrointestinal Bleeding, Ulceration and Perforation

Advise patients to report symptoms of ulcerations and bleeding, including epigastric pain, dyspepsia, melena and hematemesis to their healthcare provider. In the setting of concomitant use of low-dose aspirin for cardiac prophylaxis, inform patients of the increased risk for and the signs and symptoms of GI bleeding [see Warnings and

#### Hepatotoxicity

Inform patients of the warning signs and symptoms of hepatotoxicity (e.g., nausea, fatigue, lethargy, pruritus, diarrhea, jaundice, right upper quadrant tenderness and "flulike" symptoms). If these occur, instruct patients to stop indomethacin and seek immediate medical therapy [see Warnings and Precautions (5.3)].

#### **Heart Failure and Edema**

Advise patients to be alert for the symptoms of congestive heart failure including shortness of breath, unexplained weight gain or edema and to contact their healthcare provider if such symptoms occur [see Warnings and Precautions (5.5)].

#### Anaphylactic Reactions

Inform patients of the signs of an anaphylactic reaction (e.g., difficulty breathing, swelling of the face or throat). Instruct patients to seek immediate emergency help if these occur [see Contraindications (4) and Warnings and Precautions (5.7)].

#### Serious Skin Reactions, including DRESS

Advise patients to stop taking indomethacin immediately if they develop any type of rash or fever and to contact their healthcare provider as soon as possible [see Warnings and *Precautions (5.9, 5.10)*].

#### **Female Fertility**

Advise females of reproductive potential who desire pregnancy that NSAIDs, including indomethacin, may be associated with a reversible delay in ovulation [see Use in Specific Populations (8.3)].

#### **Fetal Toxicity**

Inform pregnant women to avoid use of indomethacin and other NSAIDs starting at 30 weeks gestation because of the risk of the premature closing of the fetal ductus arteriosus. If treatment with indomethacin is needed for a pregnant woman between about 20 weeks to 30 weeks gestation, advise her that she may need to be monitored for oligohydramnios, if treatment continues for longer than 48 hours [see Warnings and Precautions (5.11) and Use in Specific Populations (8.1)].

#### Avoid Concomitant Use of NSAIDs

Inform patients that the concomitant use of indomethacin with other NSAIDs or salicylates (e.g., diflunisal, salsalate) is not recommended due to the increased risk of gastrointestinal toxicity and little or no increase in efficacy [see Warnings and Precautions (5.2) and Drug Interactions (7)]. Alert patients that NSAIDs may be present in "over the counter" medications for treatment of colds, fever or insomnia.

#### Use of NSAIDs and Low-Dose Aspirin

Inform patients not to use low-dose aspirin concomitantly with indomethacin until they talk to their healthcare provider [see Drug Interactions (7)].

Medication Guide available at www.zydususa.com/medguides or call 1-877-993-8779.

#### Manufactured by:

#### Zydus Lifesciences Ltd.

Changodar, Ahmedabad, India

#### Distributed by:

#### Zydus Pharmaceuticals (USA) Inc.

Pennington, NJ 08534

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Rev: 10/23

Medication Guide for Nonsteroidal Anti-inflammatory Drugs (NSAIDs) What is the most important information I should know about medicines called Nonsteroidal Anti-inflammatory Drugs (NSAIDs)? NSAIDs can cause serious side effects, including:

• Increased risk of a heart attack or stroke that can lead to death. This risk may happen early in treatment and may increase:

• with increasing doses of NSAIDs

• with longer use of NSAIDs

Do not take NSAIDs right before or after a heart surgery called a

"c	coronary artery bypass graft (C	CABG)."
he		ent heart attack, unless your You may have an increased risk of NSAIDs after a recent heart attack.
•	Increased risk of bleeding, uk esophagus (tube leading from stomach and intestines:	cers, and tears (perforation) of the n the mouth to the stomach),
0	anytime during use without warning symptoms that may cause death	
	he risk of getting an ulcer or b past history of stomach ulcers or NSAIDs	leeding increases with: stomach or intestinal bleeding with use of
o	taking medicines called "corticoste "SNRIs"	eroids", "anticoagulants", "SSRIs" or
0	increasing doses of NSAIDs	• older age
0	longer use of NSAIDs	∘ poor health
0	smoking	• advanced liver disease
0	drinking alcohol	• bleeding problems
。 。 。 W	SAIDs should only be used: • exactly as prescribed • at the lowest dose possible for yo • for the shortest time needed /hat are NSAIDs? SAIDs are used to treat pain and re	our treatment edness, swelling, and heat (inflammation)
fro		erent types of arthritis, menstrual cramps,
	/ho should not take NSAIDs? o not take NSAIDs:	
•	if you have had an asthma attack, aspirin or any other NSAIDs.	, hives or other allergic reaction with
•	right before or after heart bypass	surgery.
m • •	hedical conditions, including if ye have liver or kidney problems have high blood pressure have asthma are pregnant or plan to become p weeks of pregnancy or later may NSAIDs for more than 2 days whe pregnancy, your healthcare provid	pregnant. Taking NSAIDs at about 20 harm your unborn baby. If you need to en you are between 20 and 30 weeks of der may need to monitor the amount of aby. <b>You should not take NSAIDs</b> <b>Jnancy.</b>
in he ea	cluding prescription or over-th erbal supplements. NSAIDs and s	out all of the medicines you take, e-counter medicines, vitamins or some other medicines can interact with fects. Do not start taking any new healthcare provider first.
W N: Se m • •	/hat are the possible side effec SAIDs can cause serious side e ee "What is the most importan	ets of NSAIDs? Effects, including: t information I should know about nti-inflammatory Drugs (NSAIDs)?" e e

<ul> <li>life-threatening allergic reactions</li> <li>Other side effects of NSAIDs in diarrhea, gas, heartburn, nausea, vol</li> </ul>	
Get emergency help right away if	you got any of the following
symptoms:	you get any of the following
<ul> <li>shortness of breath or trouble breathing</li> </ul>	slurred speech
• chest pain	<ul> <li>swelling of the face or throat</li> </ul>
<ul> <li>weakness in one part or side of your body</li> </ul>	
Stop taking your NSAID and call yo if you get any of the following syn	-
• nausea	• vomit blood
• more tired or weaker than usual	<ul> <li>there is blood in your bowel movement or it is black and sticky like tar</li> </ul>
• diarrhea	• unusual weight gain
• itching	• skin rash or blisters with fever
• your skin or eyes look yellow	<ul> <li>swelling of the arms, legs, hands and feet</li> </ul>
<ul> <li>indigestion or stomach pain</li> </ul>	
flu-like symptoms	
If you take too much of your NSA get medical help right away.	ID, call your healthcare provider or
These are not all the possible side effect your healthcare provider or pharmacist Call your doctor for medical advice abo effects to FDA at 1-800-FDA-1088. Other information about NSAIDs	
<ul> <li>Aspirin is an NSAID but it does not in Aspirin can cause bleeding in the bra also cause ulcers in the stomach an</li> </ul>	ain, stomach, and intestines. Aspirin can Id intestines.
<ul> <li>Some NSAIDs are sold in lower dose counter). Talk to your healthcare pr NSAIDs for more than 10 days.</li> </ul>	ovider before using over-the-counter
Medication Guide. Do not use NSAIDs f prescribed. Do not give NSAIDs to othe symptoms that you have. It may harm If you would like more information abou provider. You can ask your pharmacist about NSAIDs that is written for health For more information, go to MedicalAff 8779. Medication Guide available at www.zydu 8779. <b>Manufactured by:</b> <b>Zydus Lifesciences Ltd.</b> Changodar, Ahmedabad, India <b>Distributed by:</b> <b>Zydus Pharmaceuticals (USA) Inc.</b> Pennington, NJ 08534	or purposes other than those listed in a for a condition for which it was not er people, even if they have the same them. ut NSAIDs, talk with your healthcare or healthcare provider for information professionals. airs@zydususa.com or Tel.: 1-877-993- ususa.com/medguides or call 1-877-993-
Novaplus is a registered trademark of	Vizient, Inc. Rev: 10/23
This Medication Guide has been approv	

This Medication Guide has been approved by the U.S. Food and Drug Administration.

# PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

NDC 70710-1958-7

Indomethacin Suppositories USP, 50 mg

30 rectal suppositories

Rx only

Zydus



nd	lomethacin su	uppository						
P	roduct Info	rmation						
Pr	oduct Type		HUMAN PRESCRIPTION DRUG	Item Cod	le (Source)	0710-1958		
Ro	oute of Admin	istration	RECTAL					
Ad	tive Ingred	lient/Active	Moiety					
		Ingre	edient Name	dient Name B		Basis of Strength		
N	DOMETHACIN (	UNII: XXE1CET95	56) (INDOMETHACIN - UNII:XXE1CET	956)	INDOMETHACIN		50 mg	
In	active Ingre		gredient Name			Streng	th	
HA	RD FAT (UNII: 8		<b>,</b>					
Pı	oduct Char	acteristics						
Co	lor	WHITE (off-wh	ite to yellowish white)		Score			
Sh	аре				Size			
	avor Intains			Imprint Code				
Pa	ackaging							
#	Item Code	Pa	ckage Description		ting Start Date		eting End Date	
1	NDC:70710- 1958-7	5 in 1 CARTON		04/15/202	4			
1	NDC:70710- 1958-6	6 in 1 BLISTER Product	PACK; Type 0: Not a Combination					
Μ	arketing	Informat	ion					
	Marketing Category	Applica	tion Number or Monograph Citation		eting Start Date		eting End Date	
ΔN	DA	ANDA21618	4	04/15/20	24			

Labeler - Zydus Pharmaceuticals USA Inc. (156861945)

# Establishment

Name

Address ID/FEI

**Business Operations** 

Revised: 4/2024

Zydus Pharmaceuticals USA Inc.